

WHAT IS CLAIMED IS:

1. A scintillator panel comprising a radiation-transparent substrate, a flat resin film formed on said substrate, a reflecting film formed on said flat resin film, and a scintillator formed on said reflecting film.

2. A scintillator panel according to claim 1, wherein at least a part of said scintillator is covered with a transparent organic film.

10 3. A scintillator panel according to claim 2, wherein said transparent organic film covers over the all surfaces of said scintillator.

15 4. A scintillator panel according to claim 3, wherein said transparent organic film reaches to the surfaces of said substrate.

5. A radiation image sensor comprising a radiation-transparent substrate, a flat resin film formed on said substrate, a reflecting film formed on said flat resin film, a scintillator formed on said reflecting film, and an imaging device disposed so as to face said scintillator.

20 6. A radiation image sensor according to claim 5, wherein at least a part of said scintillator is covered with a transparent organic film.

25 7. A radiation image sensor according to claim 6, wherein said transparent organic film covers over the all

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surfaces of said scintillator.

8. A radiation image sensor according to claim 7, wherein said transparent organic film reaches to the surfaces of said substrate.

5 11. A method of making a scintillator panel comprising steps of:

forming a flat resin film on a radiation-transparent substrate;

10 forming a reflecting film on said flat resin film; and

12 forming a scintillator on said reflecting film.

12 10. A method of making a scintillator panel according to claim 9, further comprising a step of covering at least a part of said scintillator with a transparent 15 organic film.

13 11. A method of making a scintillator panel according to claim 10, wherein said transparent organic film covers the all surfaces of said scintillator.

12. A method of making a scintillator panel according to claim 11, wherein said transparent film reaches to the surfaces of said substrate.

16 13. A method of making a radiation image sensor comprising steps of:

25 forming a flat resin film on a radiation-transparent substrate;

forming a reflecting film on said flat resin film;

forming a scintillator on said reflecting film; and disposing an imaging device opposite said scintillator.

5 17 14. A method of making a radiation image sensor according to claim 18, further comprising a step of covering at least a part of said scintillator with a transparent organic film.

10 18 15. A method of making a radiation image sensor according to claim 17, wherein said transparent organic film is covering the all surfaces of said scintillator.

15 16. A method of making a radiation image sensor according to claim 15, wherein said transparent film reaches to the surfaces of said substrate.

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